Fire Department • Fire and Environmental Protection Division • 1000 Villa Street • Mountain View, California 94041-1295
650-903-6378 • FAX 650-9036122

Plan Check Requirements for:
STORM DRAIN/SANITARY SEWER DISCHARGES
RESIDENTIAL, COMMERCIAL, & INDUSTRIAL FACILITIES

(Update—9/04)

The Fire and Environmental Protection Division of the Mountain View Fire Department will review your submitted plans using this plan check outline.

Where appropriate, enter below the page number of your submitted plans where the item asked for is called out and highlight the item in your plans. Include brochures, manufacturer's cut sheets, and calculations with the plans when asked for.

If all the information requested in this outline is included in your plans or attachments, they can be reviewed and approved by the Fire and Environmental Protection Division within five working days.

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Facility Name _____ **Address:** _____

Architect Name: _____ **Phone:** _____ **PC#:** _____ **Date:**_____

A. General

❑ 1) Domestic and industrial process waste discharge piping shall be completely separated upstream of a manhole or access box to allow for the separate measuring of industrial and domestic wastes (MVCC 35.32.7.1). *Indicate all the domestic and industrial waste discharge lines on the plans. Show the location and dimensions of the manhole or access box.* Plan page number: _____.

❑ 2) It shall be unlawful for any interior floor drains to be connected to the storm sewer system (MVCC 35.32.10.1(D). *Provide an inventory of all interior floor drains and designate whether they discharge to the sanitary sewer or storm sewer on the plans.* Plan page number: _____.

❑ 3) It shall be unlawful to discharge to the storm sewer system any of the following (MVCC 35.31.3.1):

- Air compressor condensate;
- Air scrubber water;
- Boiler water blow-down;
- Chiller water;
- Cooling tower blow-down;

Indicate the location of each item and the sanitary sewer drain it will be discharged to on the plans . Plan page number:_____.

❑ 4) Spill prevention and clean-up equipment shall be kept in stock at all times (MVCC 35.32.10.1(C)). *Specify in the attached plans the type of clean-up equipment that will be stocked.* Plan page number: _____.

- ❑ 5) Storm drain inlets shall be labeled in accordance with the City's storm drain inlet label program ("No Dumping, Flows to Bay") (MVCC 35.32.10.1(J)). *Indicate this on the plans.* Plan page number: _____.

- ❑ 6) Roof-mounted equipment, tanks, and piping containing hazardous materials shall be secondarily contained. (MVCC 35.32.10.1(K)). Secondary containment shall not allow for the accumulation of liquids (hazardous material liquids, precipitation, condensate, etc.). (MFCC 24.3.0.q.2(d)). *List an inventory of all roof-mounted equipment on the plans and indicate which ones contain hazardous materials.* Plan page number: _____. *Indicate on the plans the method of secondary containment.* Plan page number: _____.

- ❑ 7) For water distribution systems, zinc anodes shall not be in contact with the water supply. (MVCC 35.32.10.1(L)). *Indicate this on the plans.* Plan page number: _____

B. <u>Significant Industrial Users</u> (includes any business: discharging process wastewater exceeding 25,000 gallons per day, discharging process wastewater that may include toxics, subject to EPA categorical regulations, or treating process wastewater prior to discharge).

- ❑ 1) Every significant industrial user shall provide a flow measuring device or flow measuring methodology approved by the City (MVCC 35.32.7.1). *Attach manufacturer's cut sheets on the flow measuring device. Show the location of this device on the plans.* Plan page number: _____.

C. <u>Dental Facilities</u>

- ❑ 1) Dental facilities shall install ISO 11143-certified amalgam separator devices for each dental vacuum suction system. Neither the separator device nor the related plumbing shall include an automatic flow bypass (MVCC 35.32.12.3 (R)). *Attach manufacturer's cut sheets on the amalgam separtordevices and show their location on the plans.* Plan page number: _____.

D. <u>Food Service Facilities</u> (includes kitchens, lunch rooms, and cafeterias)

- ❑ 1) Commercial or industrial generators of grease shall install approved grease removal devices (grease trap or grease interceptor). It shall be sized in conformance with Section 711 and Appendix H of the most current publication of the Uniform Plumbing Code adopted by the city. (MVCC 35.32.10.1(I)). *Attach the following:*
  - ❑ *Manufacturer's cut sheets on the grease removal device;*
  - ❑ *Calculations for determining appropriate size of the device.*

  Show the device's location on the plans. Plan page number: _____.

- ❑ 2) Contents of the grease removal device shall be removed periodically, but in no case less than once every 6 months by a licensed third-party contractor (MVCC 35.32.10.1(I)). *Attach a copy of a signed contract with the grease removal contractor. (Plans will not be approved without a signed contract).*

- ❑ 3) Commercial or industrial generators of grease shall install a sink or have a designated area for cleaning floor mats, containers and equipment connected to the grease removal device and large enough to clean the largest mat or piece of equipment (MVCC 35.32.10.1(I)). *Attach manufacturer's cut sheets on the sink or area, including its size.*

- ❑ 4) Commercial or industrial generators of grease shall have a covered and enclosed area for their dumpster which prevents water runon to the area and runoff from the area. If there is a drain installed beneath the dumpster, it shall be connected to a grease removal device (MVCC 35.32.10.1(I)). *Show the schematics for the cover and enclosure of the dumpster on the plans.* Plan page number: _____. *If there is a drain, show the connection of it to the grease removal device.* Plan page number: _____ .

- ❑ 5) Contents of tallow containers shall be removed no less than once every two weeks by a licensed tallow removal contractor. (MVCC 35.32.10.1(I)). *Attach a copy of a signed contract with the tallow removal contractor. (Plans will not be approved without a signed contract).*

E. Laboratories

❑ 1) Lab sinks, drains, and equivalent discharge points shall be connected to approved wastewater treatment facilities or holding tanks capable of retaining the non-domestic wastewater flow until it can be sampled and analyzed (MVCC 35.32.10.1(N). *Indicate which option will be used on the plans.* Plan page number: _____

❑ 2) Lab countertops or lab sinks shall be separated with a ridge or lip to prevent hazardous or other regulated materials spilled on the countertops from draining into the sink (MVCC 35.32.10.1(N)). *Show the ridge or lip on the plans*. Plan page number: _____.

❑ 3) If mercury is stored or used, see-through sewer traps (made of glass, plastic, or other "listed" transparent materials meeting Uniform Plumbing Code requirements) shall be installed (MVCC 35.32.10.1(N)). *Indicate the type of trap to be used on the plans.* Plan page number: _____.

F. Auto Body Shops

❑ 1) Facilities performing autobody work where wet sanding is occurring shall either:

- Generate small amounts of wet sanding water by spot sanding only and wipe up residues with rags;
- Store wet sanding wastewater in pails/drums and haul off as hazardous waste; or
- Install a treatment system (settling tank system) to treat wet sanding water prior to discharge to the sanitary sewer.

(Note: this option requires issuance of a wastewater discharge permit from the City).

Indicate which option you will use to handle wet sanding wastewater. Plan page number: _____

G. Cooling Towers

❑ 1) *Provide manufacturer's cut sheets on the cooling tower(s), including capacity, location, discharge point, and blowdown discharge flow (in gallons per day).*

❑ 2) If the cooling tower(s) can discharge more than 2,000 gallons per day, the following items are required:

❑ a) An approved dedicated sampling port shall be installed to allow for the direct sampling of the cooling tower discharge. Contact the Fire and Environmental Protection Division at 650-903-6378 for specifications on the sampling port. (MVCC 35.32.7.1). *Indicate the location of the sampling port on the plans*. Plan page number: _____.

❑ b) A flow measuring device shall be installed at the point of discharge to the sanitary sewer. (MVCC 35.32.7.1). *Attach manufacturer's cut sheets on the flow measuring device and show its location on the plans.* Plan page number: _____

❑ c) A wastewater discharge permit shall be obtained from the City's Fire and Environmental Protection division prior to discharge to the sanitary sewer. Contact them at 650-903-6378 for a permit application.

H. Vehicle or Equipment Fueling Facilities

❑ 1) Vehicle or equipment fueling facilities shall be designed to prevent the run-on of stormwater and runoff of spills. This shall be accomplished by:

❑ Paving the area with concrete or other nonpermeable surface;
❑ Covering the area and extending the cover a minimum of ten (10) feet beyond the fuel pumps in the direction of vehicle or equipment access and egress; and
❑ Grading the area (sloping inward) or installing a berm or curb around the perimeter. (MVCC 35.32.10.1(O))

Show these items on the plans. Plan page number: _____ .

I. <u>Outdoor</u> <u>Vehicle or Equipment Maintenance Areas (including Washing)</u>

❑ 1) Vehicle or equipment maintenance areas shall be designed to prevent the run-on of stormwater and runoff of spills. This shall be accomplished by:
- ❑ Paving the area with concrete or other nonpermeable surface;
- ❑ Covering the area; and
- ❑ Grading the area (sloping inward) or installing a berm or curb around the perimeter. (MVCC 35.32.10.1(P)).

Show these items on the plans. Plan page number: _____ .

J. <u>Loading Docks</u>

❑ 1) Loading docks used for the shipping or receiving of hazardous materials or hazardous wastes shall be designed to prevent the run-on of stormwater and runoff of spills. This shall be accomplished by:
- ❑ Paving the loading dock with concrete or other nonpermeable surface;
- ❑ Covering the loading dock or installing a rain sensor which automatically opens and closes the storm drain in the dock; and
- ❑ Grading the dock (sloping inward) or installing a berm or curb around the perimeter. (MVCC 35.32.10.1(Q)).

Show these items on the plans. Plan page number: _____ .

K. <u>Outdoor Storage Areas</u>

❑ 1) Outdoor unprotected areas used for the storage or stockpiling of raw materials, products or equipment which can contaminate stormwater runoff through leaking, breaking down, increasing particulate or sediment runoff, or dissolving in storm water shall be designed to prevent the run-on of stormwater and runoff of spills. This shall be accomplished by:
- ❑ Paving the area with concrete or other nonpermeable surface;
- ❑ Covering the area; and
- ❑ Grading the area (sloping inward) or installing a berm or curb around the perimeter. (MVCC 35.32.10.1(R)).

Show all items on the plans. Plan page number: _____ .

L. <u>High Erosion Areas</u>

❑ 1) Outdoor areas which are prone to excessive erosion rates and sediment runoff due to: 1) the absence of landscaping, 2) the storage of high sediment-producing materials which are unprotected from stormwater infiltration; or 3) high traffic or heavy equipment traffic patterns which exacerbates the erosion rate, shall be designed to prevent the run-on of stormwater and runoff of spills. This shall be accomplished by either:
- ❑ Covering the area and grading the area (sloped inward) or installing a berm or curb around the perimter; or
- ❑ Retroffitting the area with a treatment system approved by the city which will intercept and remove the sediments from the stormwater runoff prior to entering the storm drain. (MVCC 35.32.10.1(S)).

Identify which option will be implemented and show it on the plans. Plan page number: _____ .

<u>M.</u> <u>Multi-Level Parking Garages</u>

❑ 1) Parking garage floor drains on interior levels shall be connected to an approved wastewater treatment system having a minimum capacity of 100 gallons and discharging to the sanitary sewer. (MVCC 35.32.10.1(V*)). Attach manufacturer's cut sheets on the treatment system and show its location on the plans.* Plan page number: _____

N. Multifamily Dwellings

❑ 1) Residential complexes consisting of 25 of more units shall be equipped with a designated car wash which connects to an approved wastewater treatment system having a minimum capacity of 100 gallons and discharging to the sanitary sewer. (MVCC 35.32.10.1(W)). *Attach manufacturer's cut sheets on the treatment system and show its location on the plans.* Plan page number: _____ .

❑ 2) The area surrounding the car wash shall be designed to prevent the runon of stormwater and runoff of spills by:
❑ Paving the area with concrete or other nonpermeable surface; and
❑ Grading the area (sloping inward) or installing a berm or curb around the perimeter.

Show these items on the plans. Plan page number: _____ .

O. Sprinklered Buildings

❑ 1) New buildings which are sprinklered shall be provided with a sanitary sewer drain in a protected area which can accept sprinkler water discharged during sprinkler system draining or activation of the inspector test valve. (MVCC 35.32.10.1(Z)). *Show the location of the sprinkler main drain, inspector test port and sanitary sewer connection on the plans.* Plan page number: _____